# WEST

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## Search History

**Today's Date: 7/18/2001**

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| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | l8 and l10 | 8 | L11 |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | l5 and exten$ | 59 | L10 |
| USPT | 5913059.pn. | 1 | L9 |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | l7 and keyword | 9 | L8 |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | l6 and expression | 22 | L7 |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | l5 and syntax | 38 | L6 |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | "macro language" | 166 | L5 |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | "macro language" near expression | 1 | L4 |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | macro adj language near expression | 1 | L3 |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | macro adj language | 166 | L2 |
| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | macro language | 129853 | L1 |

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L10: Entry 38 of 59                    File: USPT                    Aug 13, 1996

US-PAT-NO: 5546583
DOCUMENT-IDENTIFIER: US 5546583 A

TITLE: Method and system for providing a client/server interface in a programming language

DATE-ISSUED: August 13, 1996

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Shriver; David I. | Euless | TX | N/A | N/A |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|---|---|---|---|---|---|
| International Business Machines Corporation | Armonk | NY | N/A | N/A | 02 |

APPL-NO: 8/ 223276
DATE FILED: April 5, 1994

INT-CL: [6] G06F 13/00
US-CL-ISSUED: 395/650; 364/DIG.1, 364/284.4
US-CL-CURRENT: 709/313; 709/330
FIELD-OF-SEARCH: 395/650

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

| Search Selected | Search ALL |

| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|---|---|---|---|---|
| □ | 5086504 | February 1992 | Nemeth-Johannes et al. | 395/700 |
| □ | 5255386 | October 1993 | Prager | 395/600 |
| □ | 5257366 | October 1993 | Adair et al. | 395/600 |
| □ | 5287514 | February 1994 | Gram | 395/700 |
| □ | 5291585 | March 1994 | Sato et al. | 395/500 |
| □ | 5317722 | May 1994 | Evans | 395/500 |
| □ | 5430876 | July 1995 | Schreiber et al. | 395/650 |

## OTHER PUBLICATIONS

Shriver, David I., "REXX in the CICS Environment", Third REXX Symposium Annapolis, Maryland, 1992, pp. 1-41.
Shriver, David I., "Research on REXX in the CICS Environment", Share 80 San Francisco I916, 1993, pp. 1-44.
Shriver, David I., "Research on REXX in the CICS Environment", Share 77 Chicago, Illinois 1940, 1991, pp. 1-36.

ART-UNIT: 236
PRIMARY-EXAMINER: Heckler; Thomas M.
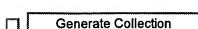ATTY-AGENT-FIRM: Mims, Jr.; David A. Terry; L. Bruce Dillon; Andrew J.

ABSTRACT:

In a data processing system, a programming language processor capable of executing program code is provided. A client program and a server program are also provided within said data processing system. The client program and the server program are comprised of program code capable of execution within said data processing system. Once the client and server programs are invoked, the client program sends a request for a service to the server program. In response to program code within the server program, a request is sent to the client program for a service that requires access to a variable within the client program. The client program then processes the request from the server program and sends the server program a response. Thereafter, the server program continues processing the request from the client program in response to gaining access to the variable in the client program. If the server program has not been initialized when the client program requests a service, the client program automatically initializes the server program.

8 Claims, 6 Drawing figures

## WEST

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L8: Entry 2 of 9             File: USPT             Feb 20, 2001

US-PAT-NO: 6192282
DOCUMENT-IDENTIFIER: US 6192282 B1

TITLE: Method and apparatus for improved building automation

DATE-ISSUED: February 20, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Smith; Marjorie L. | Garland | TX | N/A | N/A |
| Smith; Mark E. | Garland | TX | N/A | N/A |
| Gelling; Richard R. | Rowlett | TX | N/A | N/A |
| Cogbill; Michael L. | Dallas | TX | N/A | N/A |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|------|------|-------|----------|---------|-----------|
| Intelihome, Inc. | Dallas | TX | N/A | N/A | 02 |

APPL-NO: 8/ 941794
DATE FILED: September 30, 1997

PARENT-CASE:
1. CROSS-REFERENCE TO RELATED APPLICATIONS This application claims the benefit of U.S. Provisional Patent Application Ser. No. 60/028,234; filed Oct. 1, 1996, entitled Method and Apparatus for Improved Building Automation; and U.S. Provisional Patent Application Ser. No.60/028,168; filed Oct. 11, 1996, entitled Method and Apparatus for Improved Building Automation.

INT-CL: [7] G05B 11/01
US-CL-ISSUED: 700/19; 700/20, 700/17, 700/286, 700/287, 340/825.06, 340/825.52, 340/825.69, 340/825.72
US-CL-CURRENT: 700/19; 340/825.52, 340/825.69, 340/825.72, 700/17, 700/20, 700/286, 700/287
FIELD-OF-SEARCH: 700/2, 700/3, 700/9, 700/10-20, 700/17, 700/83, 700/86-87, 700/296-300, 700/280, 700/267, 340/825.06, 340/825.52, 340/825.69, 340/825.72, 340/310.01

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| Search Selected | | Search ALL |

| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|---|---|---|---|---|
| ☐ | 5086385 | February 1992 | Launey et al. | 700/83 |
| ☐ | 5128855 | July 1992 | Hilber et al. | 700/3 |
| ☐ | 5289365 | February 1994 | Caldwell et al. | 700/9 |
| ☐ | 5557545 | September 1996 | Loffel et al. | 700/9 |
| ☐ | 5706191 | January 1998 | Bassett et al. | 700/9 |
| ☐ | 5761083 | June 1998 | Brown et al. | 700/16 |
| ☐ | 5801940 | September 1998 | Russ et al. | 700/9 |
| ☐ | 5815086 | September 1998 | Ivie et al. | 340/825.75 |
| ☐ | 5924486 | July 1999 | Ehlers et al. | 165/238 |

ART-UNIT: 276
PRIMARY-EXAMINER: Gordon; Paul P.
ASSISTANT-EXAMINER: Patel; Ramesh
ATTY-AGENT-FIRM: Hunn; Melvin A.

ABSTRACT:

An improved building automation system is provided which is modular in design thus minimizing the amount of instruction necessary to affect control of a particular building system. A relatively small set of interprocess control commands define an interprocess control protocol which is utilized in relatively high level scripts and control applications. The improved building automation system operates to translate control instructions in one particular control protocol to control instructions in a second control protocol. A text parsing program routes interprocess communication commands between modular communication programs to affect control over the automated building systems. The text parsing program includes executable instructions which allow for conditional communication of interprocess control commands depending upon system events.

75 Claims, 102 Drawing figures

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L8: Entry 3 of 9                          File: USPT                          May 16, 2000

US-PAT-NO: 6063128
DOCUMENT-IDENTIFIER: US 6063128 A

TITLE: Object-oriented computerized modeling system

DATE-ISSUED: May 16, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Bentley; Keith | Glenmore | PA | N/A | N/A |
| Wilson; Samuel | Wilmington | DE | N/A | N/A |
| Lutz; Earlin | West Chester | PA | N/A | N/A |
| Bartlett; James | Elverson | PA | N/A | N/A |
| Gooding; John | Spring City | PA | N/A | N/A |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|------|------|-------|----------|---------|-----------|
| Bentley Systems, Incorporated | Exton | PA | N/A | N/A | 02 |

APPL-NO: 8/ 966888
DATE FILED: November 10, 1997

PARENT-CASE:
This is a division of application Ser. No. 08/612,622, filed Mar. 6, 1996, now U.S. Pat.
No. 5,815,415. This application claims benefit of provisional application 60/010,234
filed Jan. 19, 1996. This application claims benefit of provisional application
60/011,285, filed Feb. 7, 1996.

INT-CL: [7] G06G 7/48, G06F 17/50
US-CL-ISSUED: 703/6; 703/7, 703/1, 706/919, 345/964
US-CL-CURRENT: 703/6; 345/964, 703/1, 703/7, 706/919
FIELD-OF-SEARCH: 395/500.34, 395/500.27, 395/683, 395/500.28, 395/701, 395/500.01,
395/964, 707/103, 364/474.24, 706/919

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[ Search Selected ]  [ Search ALL ]

| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|---|---|---|---|---|
| ☐ | 4809170 | February 1989 | Leblang et al. | 395/705 |
| ☐ | 4951192 | August 1990 | Chase, Jr. et al. | 395/706 |
| ☐ | 5339435 | August 1994 | Lubkin et al. | 395/500.47 |
| ☐ | 5347632 | September 1994 | Filepp et al. | 709/202 |
| ☐ | 5437027 | July 1995 | Bannon et al. | 707/103 |
| ☐ | 5546595 | August 1996 | Norman et al. | 395/500.42 |
| ☐ | 5625580 | April 1997 | Read et al. | 395/500.92 |
| ☐ | 5634010 | May 1997 | Ciscon et al. | 709/223 |
| ☐ | 5815415 | September 1998 | Bentley et al. | 395/500.24 |
| ☐ | 5911074 | June 1999 | Leprince et al. | 395/701 |
| ☐ | 5987242 | November 1999 | Bentley et al. | 395/500.34 |

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Dasgupta, P.; LeBalnc, R. J., Jr.' Ahamad, M.; Ramachandran, U.; "The Clouds Distrubted Operatin System", Computer, vol. 24, Issue 11, pp. 34-44, Nov. 1991.
Kramer, D; Joy, B.; Spenoff, D.;"The Java.TM. Platform: A White Paper", JavaSoft, Sun Microsystems Inc., Mountain View, CA, May 1996.
Mitchell, J. G.; Gibbons, J. J.; Hamilton, G.; Kessler, P.B. Khalidi, Y. A.; Kougiouris, P.; Madany, P.W.; Nelson, M. N.; Powell, M. L.; Radia, S. R.; "An Overview of the Spring System", Digest of Papers-COMPCON Spring '94, pp. 122-131, Apr. 1994.
Gunaseelan, L.; LeBlanc, R. J., Jr.; "Distributed Eiffel: A Language for Programming Multi-granulr Distributed Objects on the Clouds Operating System", Proceedings of the 1992 International Conference on Computer Languages, pp. 331-340, Apr. 1992.
Sommer, J.;"The DaCapo Project: Distributed, Active, Communicating, Persistent Objects", Proceedings of the Second International Workshop on Object Oriented in Operating Systems, pp. 129-132, Sep. 1992.
Ben-Shaul, I.; Cohen, A.; Holder, O.; Lavva, B.;"HADAS: A Network Centric Framework for Interoperability Programming", Proceedings of the Second IFCIS International Conference on Cooperative Information Systems, pp. 120-129, Jul. 1997.
Bottger et al., "An Object-Oriented Model for Specification, Prototyping, Implementation and Reuse", Proceedings of the Design, Automation and Test in Europe, 1998, pp. 303-310, Feb. 1998.
MicroStation J Whitepaper, downloaded from the internet at http://www.bentley.com/products/mstation/j/msjwhite.pdf.
MicroStation J News Release, downloaded from the internet at http://www.bentley.com/news/headline/msjships.htm.

ABSTRACT:

A computer system for modeling is disclosed, where the computer system has a storage device, first and second platforms, a portable persistent model, and first and second platform-dependent computerized modeling systems (CMS). Each platform is interfaced to the storage device and provides system-dependent services. The first platform has a first type of operating system and a first type of computer hardware including a first memory, and the second platform has a second type of operating system and a second type of computer hardware including a second memory. The model resides in the storage device in a platform-independent format and includes persistent component objects. The first CMS resides in the first platform memory and the second platform-dependent CMS resides in the second platform memory. Each CMS provides CMS services including retrieving the model from the storage device, manipulating the model, changing the model by adding and removing persistent objects, and persistently saving the model to the storage device. Each CMS includes a

static kernel and a dynamic framework. The kernel executes on the platform and interfaces to the operating system and the computer hardware, and provides services necessary to load and execute CMS services and to interface to the platform services. The framework executes on the platform and interfaces to the kernel, provides a platform-independent

visual interface between th● ●IS and a CMS user, and employs t● services of the kernel.

24 Claims, 26 Drawing figures

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L10: Entry 7 of 59                 File: USPT               Oct 24, 2000

US-PAT-NO: 6138098
DOCUMENT-IDENTIFIER: US 6138098 A

TITLE: Command parsing and rewrite system

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Shieber; Stuart M. | Cambridge | MA | N/A | N/A |
| Armstrong; John | Cambridge | MA | N/A | N/A |
| Baptista; Rafael Jose | Arlington | MA | N/A | N/A |
| Bentz; Bryan A. | Stonington | CT | N/A | N/A |
| Ganong, III; William F. | Brookline | MA | N/A | N/A |
| Selesky; Donald Bryant | Westford | MA | N/A | N/A |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|---|---|---|---|---|---|
| Lernout & Hauspie Speech Products N.V. | Ypres | N/A | N/A | BEX | 03 |

APPL-NO: 8/ 885631
DATE FILED: June 30, 1997

INT-CL: [7] G10L 15/18, G10L 15/22
US-CL-ISSUED: 704/257; 704/275
US-CL-CURRENT: 704/257; 704/275
FIELD-OF-SEARCH: 704/8, 704/9, 704/257, 704/270, 704/275, 395/703, 395/705, 395/707, 395/709, 395/708

PRIOR-ART-DISCLOSED:

### U.S. PATENT DOCUMENTS

| | Search Selected | | Search ALL | |

| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|---|---|---|---|---|
| ☐ | 4829423 | May 1989 | Tennant et al. | 704/8 |
| ☐ | 4984178 | January 1991 | Hemphill et al. | 704/255 |
| ☐ | 5349526 | September 1994 | Potts, Sr. et al. | 364/419.1 |
| ☐ | 5475588 | December 1995 | Schabes et al. | 704/9 |
| ☐ | 5640576 | June 1997 | Kobayashi et al. | 395/759 |
| ☐ | 5805775 | September 1998 | Eberman et al. | 704/257 |
| ☐ | 5819210 | October 1998 | Maxwell, III et al. | 704/9 |
| ☐ | 5835893 | November 1998 | Usioda | 704/9 |

### FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | US-CL |
|---|---|---|---|
| 0 394 628 | February 1990 | EPX | |

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Parr, Terence J., "An Overview of Sorcerer: A Simple Tree-Parser Generator", Int'l
Conference on Compiler Construction; Edinburg, Scotland; Apr. 1994.
Unknown Author, The Free Compiler list -BNF Subset: "Description of Sorcerer: A Simple
Tree Parser Generator", Web Document http://archive.inesc.pt/free-dir/free-S-1.300.html
Posting date (estimated): May 16, 1994.
Roe, David B., et al, "A Spoken Language Translator for Restricted-Domain Context-Free
Languages", Speech Communication II, (1992), pp. 311-319.
Wellekens, C. J., et al, "Decodage Acoustique et Analyse Linguistique en Reconnaissance
De La Parole", E Revenue HF, vol. 13, No. 5 (1985).
Zue, Victor, et al, "The Voyager Speech Understanding System: Preliminary Development and
Evaluation", IEEE, (1990), pp. 73-76.

ART-UNIT: 271
PRIMARY-EXAMINER: Dorvil; Richemond
ASSISTANT-EXAMINER: Lerner; Martin
ATTY-AGENT-FIRM: Bromberg & Sunstein LLP

ABSTRACT:

A system and method of allowing a user to control a computer application with spoken
commands, include the steps of processing the spoken commands with a Speech Recognition
application into candidate word phrases, and parsing at least one candidate word phrase
with a Context Free Grammar (CFG) parser, into a parse tree. A plurality of predefined
rewrite rules grouped into a plurality of phases applied are to the parse tree, for
rewriting the parse tree. Each of the plurality of rewrite rules includes a pattern
matching portion, for matching at least a part of the parse tree, and a rewrite
component, for rewriting the matched part. A command string is produced by traversing
each terminal node of the modified parse tree. The command string is sent to an
interpreter application or directly to the computer application. Possible applications
include word processing and other voice-entry systems.

23 Claims, 15 Drawing figures